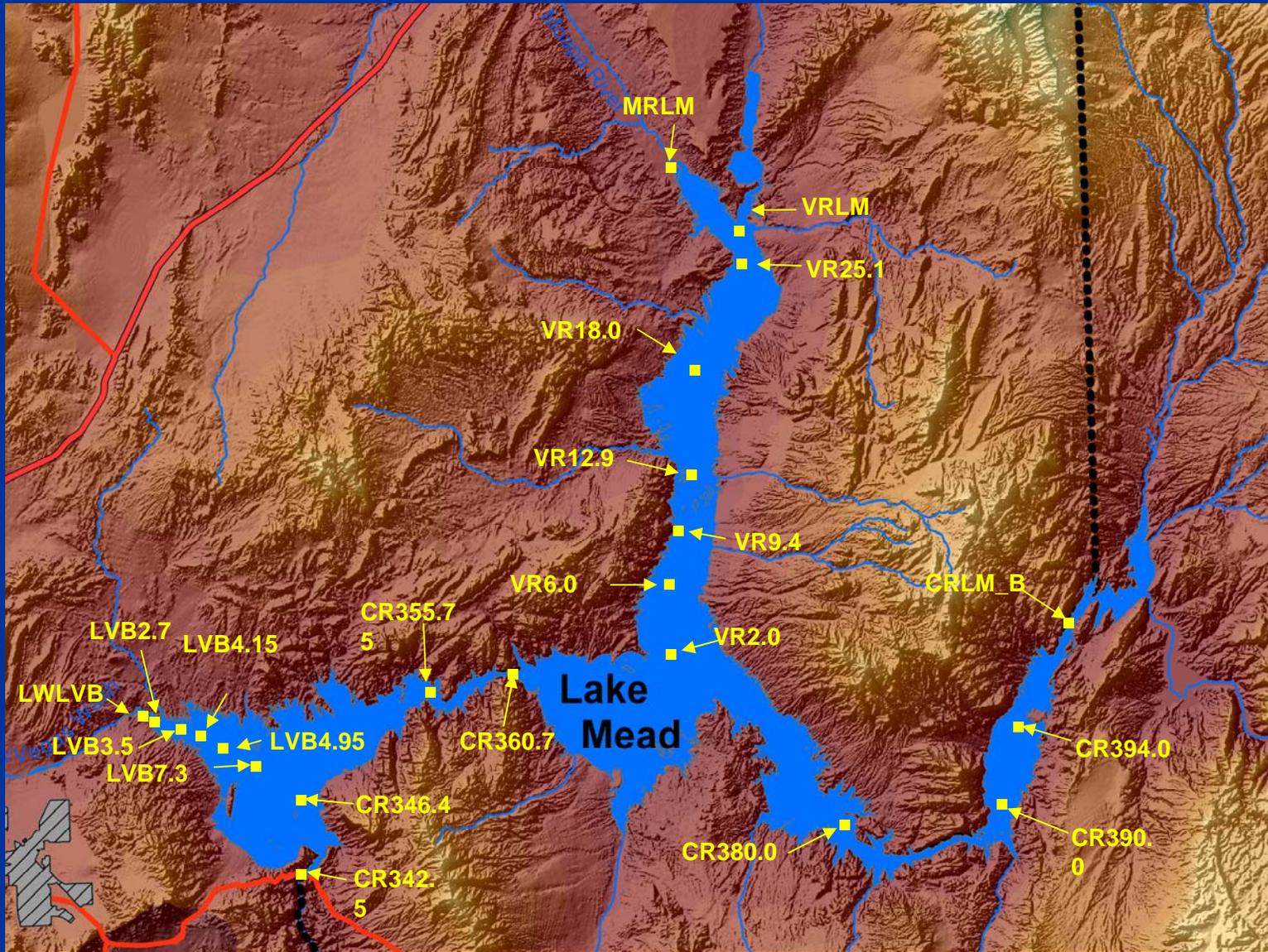


U.S. Bureau of Reclamation Technical Service Center

2007 Mead Limnology Program



Boulder Basin – 7 Sites

- *In situ* profiles - temperature, specific conductance, dissolved oxygen, pH, and turbidity
- Secchi depth
- Ambient conditions: air temperature, wind, sky conditions
- Chlorophyll *a*, surface and 0-5 m composite
- Phytoplankton analysis (0-5 m composite)
Zooplankton (Vertical haul with plankton net)
- Nutrients
 - total phosphorus, soluble orthophosphate, nitrate-N, ammonia-N, and total nitrogen
 - surface, 5 m, 20 m, bottom, interflow depth (when present), outflow depths at Hoover Dam
- Bacteria and perchlorate, surface and interflow

Overton Arm – 8 Sites

- *In situ* profiles - temperature, specific conductance, dissolved oxygen, pH, and turbidity
- Secchi depth
- Ambient conditions: air temperature, wind, sky conditions
- Chlorophyll *a*, surface and 0-5 m composite
- Phytoplankton analysis (0-5 m composite)
- Zooplankton (Vertical haul with plankton net)
- Nutrients
 - total phosphorus, soluble orthophosphate, nitrate-N, ammonia-N, and total nitrogen
 - Up to 8 depths/site
- Arsenic, bromide, total organic carbon (up to 8 depths/site)
- Metals and turbidity (bottom and maximum turbidity depth at VR9.4 and VR6.0)

Colorado River Arm – 6 Sites

- *In situ* profiles - temperature, specific conductance, dissolved oxygen, pH, and turbidity
- Secchi depth
- Ambient conditions: air temperature, wind, sky conditions
- Chlorophyll *a*, surface and 0-5 m composite
- Phytoplankton analysis (0-5 m composite)
- Zooplankton (Vertical haul with plankton net)
- Nutrients
 - total phosphorus, soluble orthophosphate, nitrate-N, ammonia-N, and total nitrogen
 - Up to 8 depths/site
- Arsenic, bromide, total organic carbon (up to 8 depths/site)

Zebra Mussel Monitoring

- **PCR technique (300 x more sensitive than microscopy)**
- **Microscopy for confirmation of positive samples**
- **Sites to be determined**